

Primary Care Atlas of Variation for Laboratory Diagnostic Tests

User Guidance

This guidance is designed to help navigate users through the Primary Care Atlas of Variation for Laboratory Diagnostic Tests, developed by the National Demand Optimisation Group (NDOG). Some background information is provided, followed by guidance on each of the tabs and dashboard views within the Atlas. A 'Frequently Asked Questions' section has also been included along with contact details for the NDOG team.

Here is a direct link to the Atlas: Phase5 Primary Care Dashboard | Tableau Public

What is Demand Optimisation?

Demand Optimisation is defined as the process by which diagnostic test use is optimised to maximise appropriate testing, which in turn optimises clinical care and drives more efficient use of NHS resource.

What is the National Demand Optimisation Group?

Under the auspices of the Healthcare Science National Delivery Plan (NDP), the Scottish Government funded the establishment of a National Demand Optimisation Group (NDOG) to review the third deliverable of the NDP, which states:

NHS Board Healthcare Science Leads will work with stakeholders to develop local improvement plans to reduce unnecessary testing across primary and secondary care. This will free up capacity to address rising demand and deliver testing that positively affects the patient pathway, supports primary care preventative measures and reduces hospital referrals and admissions.

The NDOG is a multi-disciplinary group comprised of individuals from the main diagnostic disciplines within Laboratory Services, the Scottish Government, NHS National Services Scotland (NSS) and the National Managed Diagnostic Networks (NMDNs).

Why Does the Group Exist?

There is considerable variation in the use of laboratory diagnostic tests across primary care. Some of this variation can be attributed to clinical and demographic differences. However, some variation can be attributable to differences in practice processes and pathways or individual requester approaches or preferences.

What is the Primary Care Atlas of Variation for Laboratory Diagnostic Tests?

The Atlas of Variation contains monthly data on NHS board primary care requesting totals for a specific suite of blood science tests from cancer, cardiac, diabetes and other general pathways. The Atlas consists of three separate dashboards that allow GP practices to compare their request rates with their cluster, health board, national totals and peer group.

What else can I get out of using the Atlas of Variation?

The Atlas of Variation also contains links to educational advice, developed by the National Demand Optimisation Group's Education Short Life Working Group members. The advice, available for selected tests, is hosted on the Right Decision platform, with direct links from the Atlas. Information includes: background, when to test, when not to test, when to repeat a test and any further reading recommendations. There is also an opportunity for users to test their knowledge.

A quality improvement toolkit of resources can also be accessed via the Atlas, should any users wish to scope and implement any quality improvement projects.

Who can I contact for more information?

If you have any further questions or would like more information, you can get in touch with the NDOG team via <u>nss.nationaldemand@nhs.scot</u> You can also visit the website - <u>National Demand Optimisation Group (scot.nhs.uk)</u>

1. The Landing Page

When you first enter the Atlas of Variation, you will be able to see a landing page, which provides a screenshot and overview of each of the three dashboard view options, as well as buttons to take you to the Education Toolkit, Definitions and Quality Improvement Toolkit.



Figure 1 Atlas of Variation Landing Page





Figure 3 Dashboard 2 View: Trends across Time

This dashboard allows you to compare your practice with all four comparators at the same time, over a selected period of time.



This dashboard shows two separate outputs. The top is a box graph, which has each practice represented by a dot. In the above example, these are split into clusters within the selected health board. The bar chart in the lower half of the dashboard shows all the practices within the board, side by side. This ranges in ascending order from the practice that has the highest under-request rate to the practice with the highest over-request rate, compared to the selected average, which in this example is the board.

pathway.

5. Education Toolkit

Landing Page Summary Comparison (all tests Trend Across Time Box and Bar Definitions Instructions Diagnostic Tests

Diagnostic Tests		A link has been prov to associated guidance 'Lab Tests Online', w	ided ce on /hile	NHS National Services Scotland
B12	Lab Test Online Page	the NDOG Education	on	
Blood Film	Lab Test Online Page	Group continues t	to	This nage provides an
BNP/ntpro-BNP	Lab Test Online Page	develop bespoke ad	vice	overview of each test
Bone Marrow	Lab Test Online Page	on the education too	olkit.	held within the Atlas
CA125 Education Toolkit	La 🗸 Keep Only 🖉 Exclude			neid within the Atlas
Calprotectin	Li Test Name: CA125			suite. This is where you
CEA	Tooltip: CA 125 measurement is part of the ovarian cancer diagnostic pathway			will also be able to link to
Chlamydia	Li			the National Demand
Cholesterol	L, Toolkit ink: https://gptoolkitap	pp.azureweb9ites.net/diagnostic-	atlas-of-variation-education-toolk	Optimisation Group's
Coeliac (tTG Antibody)	Li	lary-care/		educational advice,
D-Dimer	Lab Test Online Page			which is hosted on the
Drugs of abuse (oral a	Lab Test Online Page			Right Decision platform.
Ferritin	Lab Test Online Page If y	ou hover over the box		See the next page for
Full Blood Count	Lab Test Online Page to	the right of a named		more details on how the
Gonorrhoea	Lab Test Online Page tes	t, a pop-up will appear		advice is presented.
HbA1C	Lab Test Online Page wi	th information about		
Immunophenotyping	Lab Test Online Page the	e test and a link to the		
INR (not including	Lab Test Online Page edu	ucation toolkit (as and	l	
Intrinsic Factor	Lab Test Online Page	hen this is available.)		
PSA	Lab Test Online Page			
QFIT	Lab Test Online Page			
Serum Electrophoresis	Lab Test Online Page			
SFLCs	Lab Test Online Page			
Sodium	Lab Test Online Page			
Urine culture	Lab Test Online Page			

Figure 5 Diagnostic tests overview and links to the associated educational advice



Figure 6 Example of educational advice layout on Right Decision platform

versions of the advice will also be available.

6. Definitions

Landing Page Summary Comparison (all tests Trend Across Time Box and Bar Definitions Diagnostic Tests

Definitions	NHS National Services Scotland			
Request Rate	The Request Rate comprises of the monthly Test Request for a General Practice divided by the Population size of the General Practice.			
General Practice	Practice Details and List Size <u>https://www.isdscotland.org/Health-Topics/General-Practice/Data/</u>			
Clusters	The General Practice Cluster is geographic group of General Practice. More info can be found here: https://www.isdscotland.org/Health-Topics/General-Practice/GP-Clusters/			
Peer Group	The Peer Group is a way of grouping General Practice with with similar underlying populations. Further information can be found here: https://www.isdscotland.org/Health-Topics/General-Practice/GP-practice-peer-groupings/index.asp			

This page provides a glossary of definitions found within the Atlas of Variation.

Figure 7 Definitions page

7. Quality Improvement Toolkit

The National Demand Optimisation Group (NDOG) has a Short Life Working Group that has been tasked with scoping and developing quality improvement projects, through the utilisation of data held within the Atlas of Variation. This work is in the early stages of development at the moment, however a quality improvement zone will be set up on the NDOG website in the near future, which will contain examples of projects, resources and templates.

In the meantime, a link has been set up from the Atlas of Variation 'Landing Page', which will take the user to an existing Quality Improvement Zone managed by NHS Education for Scotland (NES).

8. Instructions/ User Guidance

A tab and button can be accessed from the 'Landing page', which takes you to this guidance, as well as several informative videos.

9. Frequently Asked Questions

1. What do I do if the data looks wrong?

a. Drop the NDOG team an email with as much information as possible (i.e. GP Practice name, test name etc.) – nss.nationaldemand@nhs.scot

2. Can I share this with other NHS colleagues?

a. Yes - please do

3. How often is the Atlas of Variation updated?

a. We request data on a monthly basis from NHS Boards

4. Can I suggest changes to the Atlas of Variation?

a. Yes, using the feedback form on the NDOG website, under the "Dashboards" tab, you can select from a dropdown of topics and provide feedback in a free text box. This will be picked up by the NDOG Atlas Development Short Life Working Group for discussion and follow up.

5. Is there a change control process?

a. Yes, the Demand Optimisation Core Team record all changes made to the Atlas of Variation

6. How do I find out more about Demand Optimisation?

a. Please visit our website https://www.demandoptimisation.scot.nhs.uk/

7. Which internet browser should I use to access the Atlas of Variation?

- a. Please use Chrome, Edge or Firefox. Do not use Internet Explorer.
- 8. If I have local / national guidelines relating to tests on the Atlas of Variation, can I send them in?
 - a. Yes please send in to the Demand Optimisation mailbox nss.nationaldemand@nhs.scot

9. Where do I go if I have any other questions?

a. Please email us using the Demand Optimisation mailbox <u>nss.nationaldemand@nhs.scot</u>